

ABSTRACT

A device with a stator having high performance flat coils is disclosed for increasing the operation efficiency and providing a correct number of
5 winding in a coil which can cause a precise control of the inverse electromotive constant K_E of a motor or a generator so that a motor or a generator with a fixed volume can be designed to have a high rotary speed.
The flat coil can be wound with a high volume occupying ratio so that the cross section of a flat coil is larger than that of the round coil so as to
10 reduce the copper wire resistance. Therefore, the motor or generator using the flat coil has a higher operation efficiency and has a higher rated highest operation speed.

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